

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1.-36. (Cancelled).
37. (Currently Amended) A method for monitoring a well operation, comprising:
running a service tool into the well;
delivering a material through the service tool; ~~and~~
monitoring a characteristic of the material with the service ~~tool~~ tool;
measuring a well characteristic using one or more of a sensor and a fiber optic
line that is separate from the service tool; and
comparing the characteristic measured by the service tool to the well
characteristic.
38. (Previously presented) The method of claim 37, wherein monitoring is performed using one or more of a sensor and a fiber optic line in the service tool.
39. (Previously Presented) The method of claim 37, further comprising monitoring the material exiting the service tool.
40. (Cancelled).
41. (Previously presented) The method of claim 37, wherein running comprises running a thru-tubing service tool into the well.
42. (Previously presented) The method of claim 37, wherein monitoring comprises using a fiber optic line in the service tool.
43. (Previously presented) The method of claim 42, wherein using comprises running the fiber optic line along a nonlinear path.

44. (Previously presented) The method of claim 42, wherein using comprises running the fiber optic line along a generally helical path.

45. (Previously presented) The method of claim 37, wherein monitoring comprises monitoring temperature.

46. (Previously Presented) The method of claim 37, wherein delivering comprises delivering a gravel slurry.

47.-57. (Cancelled).

58. (Currently Amended) A method of servicing a well, comprising:
utilizing an intelligent service tool to deliver a ~~material~~ gravel slurry to a desired location in a well; and
monitoring the material at the service tool during delivery of the ~~material~~ gravel slurry.

59.-61. (Cancelled).

62. (Currently Amended) The method of claim 58, wherein monitoring comprises measuring a temperature of the ~~material~~ gravel slurry.

63. (Previously presented) The method of claim 58, wherein monitoring comprises utilizing a sensor disposed within the service tool.

64. (Previously presented) The method of claim 58, wherein monitoring comprises utilizing a fiber optic disposed within the service tool.

65. (Previously presented) The method of claim 58, further comprising connecting the intelligent service tool to a service string and deploying the service string within a production tubing.

66. (Currently Amended) A system for monitoring a well operation, comprising:
means for running a service tool into the well;
means for delivering a ~~material~~ gravel slurry through the service tool; and
means for monitoring a characteristic of the ~~material~~ gravel slurry with the
service tool.
67. (Previously presented) The system of claim 66, wherein the means for running
comprises a service string.
68. (Previously presented) The system of claim 66, wherein the means for
delivering comprises a service tool outlet.
69. (Previously presented) The system of claim 66, wherein the means for
monitoring comprises a sensor disposed within the service tool.
70. (New) A method for monitoring a well operation, comprising:
running a service tool into the well;
delivering a gravel slurry through the service tool;
monitoring a characteristic of the gravel slurry with the service tool.
71. (New) The method of claim 70, wherein monitoring is performed using one or
more of a sensor and a fiber optic line in the service tool.
72. (New) The method of claim 70, further comprising monitoring the gravel
slurry exiting the service tool.
73. (New) The method of claim 70, wherein running comprises running a
thru-tubing service tool into the well.
74. (New) The method of claim 70, wherein monitoring comprises using a fiber
optic line in the service tool.
75. (New) The method of claim 74, wherein using comprises running the fiber
optic line along a nonlinear path.

76. (New) The method of claim 74, wherein using comprises running the fiber optic line along a generally helical path.

77. (New) The method of claim 70, wherein monitoring comprises monitoring temperature.